

I claim:

1. A control valve comprising: a housing, a spool, said spool rotatably contained within said housing, said housing defining a fluid entry port, a first fluid exit port and a second fluid exit port, said fluid entry and said first and second fluid exit ports in fluid communication with said spool, said spool defining a channel, said spool threadably mounted in said housing whereby rotating said spool in one direction will allow fluid to flow from said entry port to said second exit port and rotating said spool in the opposite direction will cause fluid to bypass said second exit port.
2. The control valve of claim 1 wherein said spool comprises a plurality of channels.
3. The control valve of claim 1 further comprising a handle, said handle attached to said spool.
4. The control valve of claim 1 wherein said housing defines a spool duct, said spool mounted in said spool duct.
5. The control valve of claim 1 wherein said spool is formed of a polymeric material.

6. The control valve of claim 5 wherein said polymeric material is Delrin.

*Trademark pg. 16-17 spec*

7. The control valve of claim 1 wherein the housing is formed from a polymeric material.
8. The control valve of claim 4 wherein said housing defines a groove, said groove along said duct.
9. The control valve of claim 4 further comprises a plurality of o-rings, said o-rings surrounding said duct, said o-rings for engaging said spool.
10. The control valve of claim 1 wherein said entry port and said first exit port are connected to a water purification loop.
11. A control valve comprising: a housing, said housing defining a spool duct, said spool duct containing a plurality of o-rings, a spool, said spool positioned in said housing in rotatable engagement with said o-rings, said spool defining a plurality of channels, said channels longitudinally extending along said spool, said housing further defining an entry port and first and second exit ports, said entry port and said first exit port and said second exit port communicating with said spool duct, said first and said second exit ports spaced axially along said spool duct, said spool threadably joined to said housing, said spool channels extending to allow continual flow of a liquid from said

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entry port to said first exit port and selected flow of liquid to said second exit port.

12. The control valve of claim 11 wherein said spool is formed of Delrin.

13. The control valve of claim 11 wherein said housing is formed of a polymeric material.

14. The control valve of claim 10 wherein said fluid entry port and said first fluid exit ports are connected to a water purification loop.

15. A method of purifying water utilizing a control valve having a rotatable spool in fluid communication with an entry port and a pair of exit ports comprising the steps of:

- a) passing water through a purification loop;
- b) directing the purified water to a control valve within the loop;
- c) circulating the purified water through the control valve; and
- d) diverting purified water within the control valve to an end use.

16. The method of claim 15 further comprising the step of passing any undiverted water within the control valve back to the purification loop.

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17. The method of claim 15 wherein diverting the purified water comprises the step of rotating a spool within the control valve.
18. The method of claim 17 wherein rotating the spool comprises the step of manually rotating the spool.

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